



155MM/45CAL ELECTRONICALLY UPGRADED GUN SYSTEM "DHANUSH"

QUALITY ASSURANCE PLAN/ACCEPTANCE TEST
PROCEDURE
OF
HEX SCREW (N2-140)

GOVERNMENT OF INDIA, MINISTRY OF DEFENCE ORDNANCE FACTORY BOARD GUN CARRIAGE FACTORY JABALPUR (M.P) 482011

QAP NO-GCF/QC/100/QAP/155MM/45CAL/DHANUSH/ HEX SCREW (N2-140) /AUG /2019/01

इस दरतावेज में दी गई सूचना कही और छापना अथवा प्रत्यक्ष दा अप्रत्यक्ष रूप से प्रेस में या किसी ऐसे व्यक्ति को नहीं बताबा है जो भारत सरकार में किसी पद पर न हो। THE INFORMATION GIVEN IN THIS DOCUMENT IS NOT TO BE PUBLISHED OR COMMUNICATED, EITHER DIRECTLY OR INDIRECTLY TO THE PRESS OR TO ANY PERSON NOT HOLDING AN OFFICIAL POSITION IN THE SERVICE OF THE GOVERNMENT OF INDIA



QUALITY ASSURANCE PLAN/ACCEPTANCE TEST PROCEDURE OF HEX SCREW (N2-140)

155 mm / 45 CAL DHANUSH

इस हैण्डवुक के होने से किसी प्रयोक्ता को यह अधिकार गहीं मिलता कि वह कंपोर्गेट्स् की मरम्मत करें या उसे बदलने का काम करें। अन्य एजेंसियों द्वारा मरम्मत कार्य "परिमसीवल रिपेयर शेड्यूल" के अनुसार किए जाए जैसा कि ई एम ई आर या उस जैसे मैन्युअलों में समय-समय पर प्रकाशित किया गया है।
THIS HANDBOOK DOES NOT CONSTITUTE AUTHORITY FOR REPAIRS OR REPLACEMENT OF

THIS HANDBOOK DOES NOT CONSTITUTE AUTHORITY FOR REPAIRS OR REPLACEMENT OF COMPONENTS BY USERS. REPAIRS BY DIFFERENT AGENCIES WILL ONLY BE CARRIED OUT AS LAID DOWN IN PERMISSIBLE REPAIR SCHEDULES PUBLISHED AS EMERS OR EQUIVALENT FROM TIME TO TIME.

Prepared and published by



Gun Carriage Factory

Ordnance Factory Board Government of India, Ministry of Defence, Jabalpur (MP) 482011



Under the Authority of Secretary, Ministry of Defence, Govt. of India



155MM/45CAL ELECTRONICALLY UPGRADED GUN SYSTEM "DHANUSH"

QUALITY ASSURANCE PLAN/ACCEPTANCE TEST PROCEDURE OF HEX SCREW (N2-140)

REVIEWED BY

(NIŁESH SOLANKY) WM/QC PREPARED BY

(DANISH ANSARI) C/M(T)/QC

APPROVED BY

(SANJAY SHRIVASTAVA) JT.GM/QC



RESTRICTED



QUALITY ASSURANCE PLAN/ACCEPTANCE TEST PROCEDURE OF HEX SCREW (N2-140)/DHANUSH



1. QAP/ATP OF THE FOLLOWING SIZES OF PATE:

S.No.	Size	S.No.	Size	
i.	N2-140-16X16	ii.	N2-140-10X35	
iii.	N2-140-10X30	iv.	N2-140-6X12	
V.	N2-140-6X20	vi.	N2-140-12X80	
vii.	N2-140-8X80	viii.	N2-140-8X14	
ix.	N2-140-8X40	X.	N2-140-8X25	
xi.	N2-140-8X12	xii.	N2-140-8X16	
xiii.	N2-140-8X90	xiv.	N2-140-8X35	
XV.	N2-140-8X20	xvi.	N2-140-12X35	
xvii.	N2-140-20X60	xviii.	N2-140-6X10	
xix.	N2-140-10X35	XX.	N2-140-10X30	
xxi.	N2-140-12X130	xxii.	N2-140-12X25	
xxiii.	N2-140-12X60	xxiv.	N2-140-16X40	

2. MATERIAL DETAILS:

S.N.	Material
a)	Chemical composition and mechanical properties are according to the given standard.
	And its Chemical composition and mechanical properties NABL accredited/Gov. approved lab reports for all items/components from which the same are manufactured/formed/integrated is to be attached herewith.

3. DIMENSIONS:

Dimensions	Instrument to be used for measurement of dimension	Observed dimensions	Remark
All dimensions must compliance with standard mentioned in table 1 and should be in the tolerance limits.	General engineering instrument		
Note: i. General tolerance according to IS standard.	AND ACT STREET	4429	

4. <u>FIT FOR TRIAL WITH DHANUSH GUN SYSTEM AFTER THE SAID ITEM/COMPONENTS/SUB-ASSEMBLY RECEIVED AT GCF.</u>

S.N Remark to be filled by concerned section Signature by concerned

REVIEWED BY

(NILESH SOLANKI) WM/QC PREPARED BY

(DANISH ANSARI) C/M(T)/QC



QUALITY ASSURANCE PLAN/ACCEPTANCE TEST PROCEDURE OF HEX SCREW (N2-140)/DHANUSH





head of section

LIST OF DOCUMENTS TO BE SUBMITTED BY FIRM ALONG WITH SUB ASSY/ /COMPONENT/ITEM:

- a) Dimensional acceptance check sheet 100%.
- b) Chemical composition and mechanical properties NABL accredited/Gov. approved lab reports for all items/components from which the same are manufactured/formed/integrated.
- c) Heat treatment NABL Accredited/Gov. approved report with specified hardness as mentioned in standard along with graph, representing HT cycle, if any.
- d) NABL / government approved NDT certificated report to be attached herewith, if the same test is mentioned.
- e) Surface treatment report, if any.
- f) Surface Coating conformation certificates for all sub-assy, if any.
- g) Fabrication report along with SR report, if any.
- h) Test piece of adequate size of any sub-assy may asked by the GCF for verification of its Chemical and mechanical properties.
- i) Copies of invoice /Purchases order of all raw materials/Standard items pertaining to said item/components/sub-assy are to be attached herewith this QAP/ATP by the firm in hard copy.

6. IMPORTANT NOTES:

a) Handling according to standard V6-1, if the same mentioned in the drawing.

b) Use rust preventative (W11-217-1) after integration, location specified in drawing; if any.

- c) If any query arise pertaining to dimensions, standards (viz. mechanical properties, chemical composition, Heat treatment etc) or any other aspects which are mentioned in QAP/ATP but are mismatching with actual drawings/standards, then in this case the firm should intimate GCF with detail explanation and the commencement of bulk production only be make after receiving of proper clarification from GCF, Jabalpur.
- d) This Quality plan/Acceptance, after proper vetting by standard cell, should be issued to vendor along with supply order. Vetting by standard cell is to be done for checking whether any modification or amendment of material/drawing has been introduced in drawing within of action of procurement.
- Final authority of acceptance is based on the Fit for Trail (FFT) report .

All necessary mark/punch/patter should be compliance with drawing, if any.

LIST OF DOCUMENTS PROVIDED BY GCF TO FIRM ALONG WITH THIS QAP/ATP, IS **ENUMERATED BELOW:**

ESH-SOLANKI) WM/QC

(DANISH ANSARI) C/M(T)/QC



RESTRICTED



QUALITY ASSURANCE PLAN/ACCEPTANCE TEST PROCEDURE OF HEX SCREW (N2-140)/DHANUSH

a) A copy of a standard: N-140

(NILESH SOLANKI) WM/QC

(DANISH ANSARI) C/M(T)/QC